

sDP.01t

Differential Pressure Transmitter

Reliable pressure measurement for your EMS

The **sDP.01t** is a low range differential pressure transmitter for accurate and reliable measurement needs of EMS, building automation systems, HVAC and filter monitoring applications.

The measurement data is available on the **RS-485 Modbus** which eliminates the measurement problems that may arise from transferring analog signals on the field, provides **advantages in installation and commissioning, reduces the wiring and installation time**.





sDP.01t has an optional on-site alarm generation

function which avoids logging delays in case of an event occurs. This function can be enabled / disabled remotely.

The measurement range, filter constant, alarm parameters, **zero-offset** and measurement unit can be easily set on site.

In addition to the **IP65 enclosure** which minimizes installation problems, **sDP.01t** can be used for air as well as all non-flammable and non-aggressive gases.

Areas of Use

Room pressure monitoring

Filter monitoring

Fan & blower monitoring



VAV damper control



Air-flow monitoring



Modbus RS-485 Communication

Technical Specifications



Differential Pressure Measurement

Differential Fressure Measuren	iiciit	
Measurement Principle	Piezoresistive (sensor brand TE Co	nnectivity / Honeywell)
Measuring range	25 7500 Pa	
Span Accuracy	0.25 % of span	
Span Repeatability	0.5 % of reading	
Resolution	0.06 Pa	
Temperature compensation	Yes	
Allowable Overpressure	not to exceed 100 KPa	
Media compatibility	Air, N ₂ , O ₂ (calibrated for Air)	
Outputs		
Туре	Digital , isolated 2w RS485	
Protocol	Modbus RTU	
Baud Rate	9600 156000 bps	
Max Nodes on BUS	120	
Parameter setup	Via RS485 (Serial number, Location, Device name, Slave ID, Filter constants, Alarm limits, Calibration parameters etc.)	
Isolation	RS485 Output isolated from Supply Voltage & Sensor	
Mechanical		
Enclosure	ABS plastic	
Enclosure Dimensions	82 x 80 x 56 mm	
Enclosure Protection Class	IP 65	
Installation Type	Duct / Wall / DIN Rail	
Cable Gland	PG7 suitable for cable dia 3 to 6.5 mm	
Pressure Connection	Brass nipples Φ 6.2mm (Alternative diameters can be supplied upon request)	
Tubing	PVC, Silicone	
Electrical		
Supply Voltage	18 35 VDC	
Current consumption	60 mA max @ 24 VDC	
Electrical Protection	Reverse Polarity	
Environmental		
Measured media	Air, N ₂ , O ₂	
Working temperature	-20 +60 °C	
Storage temperature	-20 +60 °C	
Order Options		
	sDP.01t.[alarm].[range]	
[alarm]	[0] - Without alarm option	[1] - With alarm option
[range]	[01] - 25 Pa [02] - 125 Pa [03] - 500 Pa	[04] - 1000 Pa [05] - 7500 Pa [06] - Custom specified